

26. (New) An isolated polynucleotide comprising SEQ ID NO:1 nucleotides 342 to 1610.

27. (New) An isolated polynucleotide comprising SEQ ID NO:1.

28. (New) An isolated polynucleotide consisting of SEQ ID NO:1 or a fragment thereof encoding a protein having the activity of a histidine kinase.

29. (New) An isolated polynucleotide comprising the full complement of SEQ ID NO:1.

30. (New) An isolated polynucleotide which hybridizes under stringent conditions to SEQ ID NO:1 or the full complement thereof, wherein said stringent conditions comprise washing in 5XSSC at a temperature from 50 to 68°C and wherein said polynucleotide encodes a protein having the activity of a histidine kinase.

31. (New) The isolated polynucleotide of claim 30, wherein said polynucleotide is native to the genus *Corynebacterium*.

32. (New) The isolated polynucleotide of claim 30, wherein said polynucleotide is native to the species *Corynebacterium glutamicum*.

33. (New) A vector comprising the isolated polynucleotide of claims 20 or 21.

34. (New) A vector comprising the isolated polynucleotide of claims 23, 26, 27, 28 or 29.

35. (New) A vector comprising the isolated polynucleotide of claim 30.

36. (New) A bacterium comprising the vector of claim 34.

37. (New) The bacterium of claim 36, wherein said bacterium is of the species *Escherichia coli* or of the genus *Corynebacterium*.

38. (New) An isolated polynucleotide consisting of at least 30 consecutive nucleotides selected from the full complement of SEQ ID NO:1, wherein said polynucleotide is a probe in a hybridization reaction to detect or to isolate a polynucleotide encoding a protein having the activity of a histidine kinase.

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cont.
39. (New) An isolated polynucleotide consisting of at least 30 consecutive nucleotides selected from SEQ ID NO:1 or the full complement thereof, wherein said polynucleotide is a primer in a polymerase chain reaction to produce a polynucleotide encoding a protein having the activity of a histidine kinase.

40. (New) A bacterium comprising the vector of claim 33.

41. (New) A bacterium comprising the vector of claim 35.

42. (New) The vector pCR2.1luxSint contained in the E. coli strain Top10/pCR2.1luxSint (DSM Accession No. 14082).

IN THE ABSTRACT OF THE DISCLOSURE

Please delete the present Abstract of the Disclosure and replace it with the following new Abstract of the Disclosure.

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--This invention relates to novel polynucleotide sequences encoding histidine kinase from *corynebacterium glutamicum*.--
